

GGP011BL

Surface Mount Schottky Rectifier Reverse Voltage 100V Forward Current 1A

Features

- Low forward voltage drop
- · Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s
- Low profile, typical thickness 1.0mm

Applications

For use in fast swiching in RF module, lighting, cell phone, portable devices, power supplie and other consumer applications.



Package: eSGP (SOD-323F)



|**Maximum Ratings** ($T_A = 25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1.0	Α
Peak Forward Surge Current (8.3 ms single half sine-wave superimposed on rated load)	I _{FSM}	30	А
Operation Junction Temperature Range	ΤJ	- 55 to + 150	°C
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Test Conditions	Symbol	Value	Unit
Maximum Instantaneous Forward Voltage	I _F =1A	V _F	0.80	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	20	μΑ
Typical Junction Capacitance	4.0 V, 1 MHz	CJ	24	pF
Typical Thermal Resistance ¹⁾	Juntion to Mount	$R_{ extsf{ heta}JM}$	60	°C/W

Note:1) The thermal resistance from junction to ambient, case or mount, mounted on P.C.B with 5×5mm copper pads, 2 OZ, FR4 PCB



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Ratings and Characteristics Curves (T_A = 25°C unlessotherwise noted)

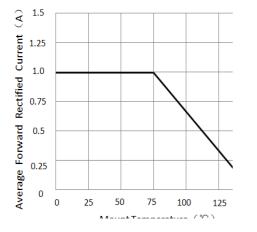


Figure 1. Forward Current Derating Curve

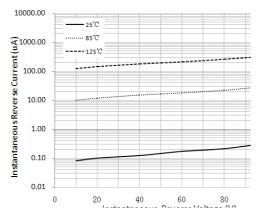


Figure 3. Typical Reverse Characteristics

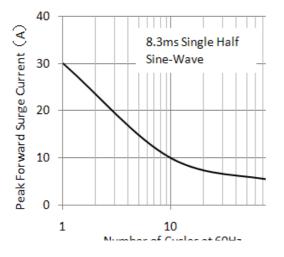
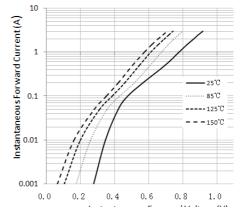
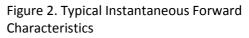


Figure 5.Maximum Non-Repetitive Peak Forward Surge Current





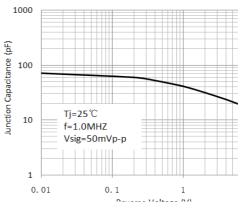


Figure 4. Typical Junction Capacitance

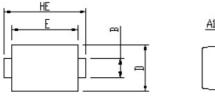


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Package Outline Dimensions

eSGP (SOD-323F)

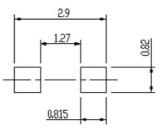


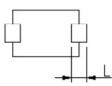




DIM	Unit	: mm	Unit: inch	
	MIN	MAX	MIN	MAX
Α	0.9	1.08	0.035	0.043
A1	0	0.1	0.000	0.004
В	0.5	0.7	0.020	0.028
С	0.1	0.25	0.004	0.010
D	1.4	1.6	0.055	0.063
E	2	2.2	0.079	0.087
L	0.35	0.65	0.014	0.026
HE	2.4	2.8	0.094	0.110

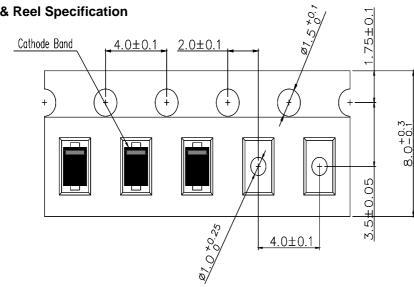
Soldering footprint





Packing Information Packing quantities

- 1) 3000 pcs/Reel, 40 Reels/Box, 8mm Tape, 7" Reel
- 2) 10000 pcs/Reel, 16 Reels/Box, 8mm Tape, 13" Reel



Tape & Reel Specification